

CLAIMS

1. Programming station for an automation application designed to be executed in an automation equipment, the programming station comprising a memory containing a set of one or several description files
5 (401), each description file describing part of the automation application and being expressed in a single, hierarchised and object oriented language, characterised in that the programming station uses a compression program (60) that generates a file in the
10 compacted format (501) for each description file, the contents of the compacted file being sufficient for the description of part of the application considered, and in that it uses a loading program to store each compacted file (501) in a memory (50) in the automation
15 equipment.

2. Programming station according to claim 1, characterised in that it uses a decompression program (61) to generate a description file (401) in a single, hierarchised and object oriented language describing
20 part of the application, from a compacted file (501) stored in the automation equipment memory (50).

3. Programming station according to claim 2, characterised in that the single, hierarchised and object oriented language is the XML language.

25 4. Programming station according to one of claims 1 to 3, characterised in that the set of description files (401) contains an application program description file, an application input-output description file, and an application data description file.

5. Programming station according claim 3, characterised in that the compression program (60) and the decompression program (61) comprise two steps.

6. Programming station according to claim 3,
5 characterised in that the compression program (60) comprises a step to reduce the tags contained in a description file (401) expressed in the XML language by application of a specific stylesheet (601) and a step to execute a compaction algorithm (603) adapted to XML
10 files.

7. Programming station according to claim 3, characterised in that the decompression program (61) comprises a step to execute a decompaction algorithm (603) adapted to XML files and a step to recreate
15 source tags contained in a description file (401) expressed in the XML language, by application of a specific stylesheet (601).

8. Programming station according to one of the previous claims, characterised in that it includes an
20 XML handler (20) in a non-volatile memory dialoguing through notifications firstly with a management module (30) of the tree structure representative of the automation application expressed in the XML language, and also with a plurality of database managers (Mng1,
25 Mng2, etc.), each manager being specific to part of the automation application stored in one of the databases (Db1, Db2, etc.).

9. Automation equipment comprising a memory (50) containing an automation application program in the
30 form of a binary file (502) executable by the automation equipment, characterised in that the

automation equipment stores the executable file (502) in its memory, together with one or several files (501) in compacted format output from a set of one or more description file(s) (401) describing the automation application and expressed in a single, hierarchised and object oriented language.

10. Automation equipment according to claim 9, characterised in that the single, hierarchised and object oriented language is the XML language.

10 11. Automation equipment according to claim 10, characterised in that it comprises translation means in order to convert application description files (401) expressed in the XML language into a binary file (502) that can be executed by the automation equipment.

15 12. Automation equipment according to claim 10 or 11, characterised in that it comprises means of decompressing a file in the compacted language (501) to a description file in XML language (401) by using a specific stylesheet (601) stored in memory (50).